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MALARKEY
REDWOOD PLYWOODS

*with all the color
and glamor of the
California Redwoods*



M and M WOOD WORKING COMPANY
2301 NORTH COLUMBIA BOULEVARD
PORTLAND 17, OREGON

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CHOICE

REDWOOD PLYWOODS



MALARKEY FIGURED GRAIN



MALARKEY PLYWEAVE



MALARKEY RUSTICWOOD

PROPERTIES OF MALARKEY REDWOOD PLYWOODS

Malarkey redwood panels radiate all the rich tones, texture and cheeriness so favored in redwood. And they embody a durability found in no other wood. Centuries-old forests of giant California redwoods are outstanding examples of this natural longevity. Redwood beams hewed some 175 years ago still stand solid and sound in old California missions. Now Malarkey redwood plywoods make available the many desirable qualities of redwood in a stronger, easier-to-handle, more versatile form.

DURABILITY

Malarkey redwood plywoods are unaffected by weather, insects, or decay. Waterproof phenolic resin glues enable these redwood panels to withstand the most severe moisture conditions. Natural chemical compounds, found in no other wood, armor redwood against attacks by wood-destroying insects and decay fungi.

STRENGTH

Laminated cross-ply construction of Malarkey redwood plywood adds amazing new strength to this choice wood. For with each ply bonded at right angles to adjacent plies, with-the-grain strength is evenly distributed across both the length and width of each panel.

LIGHT WEIGHT

Malarkey redwood plywood is 20% lighter than fir plywood. This weight reduction is especially valuable for commercial and industrial remanufacturing, where important freight and handling savings may be made.

LOW SHRINKAGE

Redwood has the least volumetric shrinkage of any commercial American wood. U.S. Department of Agriculture tests with redwood indicate a shrinkage of only two per cent in a radial direction (across the vertical grain) and 3.3 per cent in a tangential direction (across the flat grain), in drying from a green, unseasoned condition to a 6- to 7- per cent moisture content. This relative stability, plus the added control of cross-ply lamination, make Malarkey redwood plywoods particularly suitable for all applications subjected to alternate wet and dry conditions.

LOW HEAT CONDUCTIVITY

Redwood's low specific density makes it an excellent insulating material. U.S. Forest Products Laboratory tests show a value of redwood for this property of 0.76 BTUs per hour per square foot, with a temperature gradient of 1°F. per inch of thickness. For dwellings, refrigerated cars and cold-storage plants, greenhouses and many other areas of use, this low thermal conductivity inherent with Malarkey redwood plywoods is obviously important.

Malarkey Shadowood and Rift Grain Redwood Plywoods Are Available in These Two Attractive Face Patterns

Natural faces refer to Malarkey redwood panels which are *not* planked.

Planked faces are available in *rift grain* and *Shadowood* redwood panels only. The unusual planked pattern is simulated by small vee grooves, running the length of each panel every 5, 11, 7, 9, 10, and 6 inches. Consequently, every second groove falls 16 inches on center . . . to help the builder quickly and easily locate wall studding. Nails are virtually hidden in the grooves, when driven with a normal deep set. The edges of every panel are beveled slightly, so that where the panels join, another groove is formed. And thus every joint becomes part of the planked pattern.

MALARKEY RIFT GRAIN
(natural and planked)

MALARKEY SHADOWOOD
(natural and planked)

WORKABILITY

Redwood *plywood* overcomes the limitations of lumber in nail-holding strength. Because of its cross-ply construction, redwood plywood will not split. It holds nails securely, as close as $\frac{3}{8}$ of an inch from the edge. It can be readily glued, and worked with ordinary hand or power tools.

GOOD FINISHING PROPERTIES

Malarkey redwood plywood takes a variety of finishes well. It can be painted, stained, varnished, waxed, lacquered or bleached to fit any decorative plan. It takes paint better and holds it better than many other softwoods.

BENDING

The adaptability of Malarkey redwood plywoods to curved surfaces adds another quality that makes it wonderful for modern buildings, displays and fixtures. A continuous rounded backing, such as bandsaw framing, contributes to a better job and reduces the risk of rupturing.

Panel thickness	Approximate minimum radius when bending across surface grain	Approximate minimum radius when bending parallel to surface grain
$\frac{1}{4}$ "	15 inches	24 inches
$\frac{3}{8}$ "	36 inches	54 inches
$\frac{1}{2}$ "	6 feet	8 feet
$\frac{5}{8}$ "	8 feet	10 feet
$\frac{3}{4}$ "	10 feet	12 feet

SPECIFICATIONS

ONE TYPE OF PLYWOOD FOR ALL USES

All Malarkey redwood plywoods are bonded with completely waterproof phenolic resin glue. You can use this *one type* of redwood plywood for *all* types of jobs—wet or dry, indoors or out—with never a problem of delamination.

CORE CONSTRUCTION

Inner plies are either redwood or fir, at mill option. Panels of 100% redwood heartwood are available upon special order.

How to Specify	Grade	Face	Back	Glue	Inner Ply Specie	Width ¹	Length ¹	Thick- ness ¹	No. Plies	Approx. Wt. Per M. Ft.
Malarkey FIGURED GRAIN Redwood Plywood	A-A	A	A	phenolic resin (water proof)	redwood or fir at mill option ²	48"	96"	$\frac{1}{4}$ "	3	600 lbs.
	A-B	A	B					$\frac{3}{8}$ "	3	850 lbs.
	A-C	A	C					$\frac{1}{2}$ "	5	1175 lbs.
								$\frac{5}{8}$ "	5	1425 lbs.
Malarkey RIFT GRAIN Redwood Plywood	A-A	A	A	"	"	"	"	$\frac{1}{4}$ "	3	600 lbs.
	A-2	A	2					$\frac{3}{8}$ "	3	850 lbs.
	A-3	A	3					$\frac{1}{2}$ "	5	1175 lbs.
	A-C	A	C					$\frac{5}{8}$ "	5	1425 lbs.
Malarkey Redwood PLYWEAVE	A-C	Special	C	"	"	48"	96"	$\frac{3}{4}$ "	7	1900 lbs.
Malarkey Redwood SHADOWOOD	Special	Special	D	"	"	"	"	$\frac{5}{16}$ "	5	1425 lbs.
Malarkey Redwood RUSTICWOOD	Special	Special	D	"	"	"	"	$\frac{5}{8}$ "	5	1425 lbs.
Malarkey Redwood SHEATHING	CD	C	D	"	"	"	"	$\frac{5}{16}$ "	3	725 lbs.
								$\frac{3}{8}$ "	3	850 lbs.
								$\frac{1}{2}$ "	5	1175 lbs.
								$\frac{5}{8}$ "	5	1425 lbs.

NOTE: ¹Available in other sizes and thicknesses on special order.
²100% redwood *heartwood* available on special quotation.

Malarkey Redwood Plywood

GRADE DEFINITIONS

Shadowood and Plyweave panels:

"Special" grade face veneers contain no patches, and only small, inconspicuous shims. In addition, Shadowood face veneers are carefully selected for their pleasing grain patterns.

Figured grain and sheathing panels:

GRADE A—Grade A shall be of one or more pieces of smoothly-cut veneer, reasonably matched for color. Tight burls and pin knots (characteristic of redwood), mineral streaks and patches shall be admitted. Knots other than pin knots, worm holes and sapwood shall not be admitted.

GRADE B—Grade B shall present a solid surface, free from open defects. In addition to characteristics admitted in grade A veneer, neatly made circular plugs, as well as synthetic plugs that present solid, level surfaces shall be admitted. Also admissible shall be sapwood, knots up to one inch if both sound and tight, tight splits, slightly rough but not torn grain, and other minor sanding and patching defects.

GRADE C—Grade C may contain knotholes not larger than one inch in their least diameter, open pitch pockets not wider than one inch, splits not wider than $\frac{3}{8}$ inch (if they taper to a point), worm or borer holes not more than $\frac{5}{8}$ inch wide or $1\frac{1}{2}$ inches long, knots (if tight and not more than $1\frac{1}{2}$ inches in least dimension), plugs, patches, shims, sanding defects, and other characteristics in number and size that will not impair the serviceability of the panel.

GRADE D—Grade D shall contain no knot-holes greater than $2\frac{1}{2}$ inches in maximum dimension, no pitch pockets more than 2

inches wide by 4 inches long (or equivalent area if of lesser width), no splits wider than $\frac{1}{2}$ inch. Splits $\frac{1}{2}$ inch wide at the widest point may be one-fourth panel length. Those not more than $\frac{1}{4}$ inch wide at the widest point may be one-half panel length. Those splits not more than $\frac{3}{8}$ inch wide may be full panel length, but all splits shall taper to a point at one end. And number of plugs, patches, shims, worm or borer holes, sanding defects, and other characteristics are permitted provided they do not seriously impair the strength or serviceability of the panel.

SHEATHING GRADE—All Malarkey redwood sheathing is produced as C-D paneling, in compliance with the specifications outlined above for these two grades.

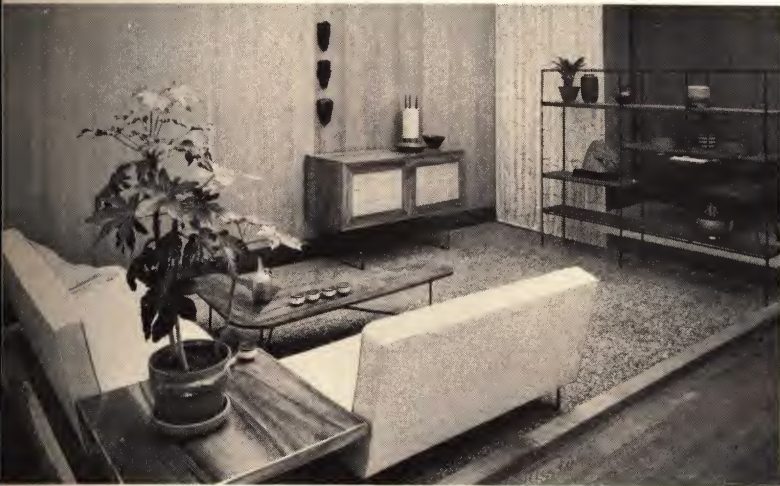
Rift grain panels:

GRADE A—Grade A shall be of one or more pieces of smoothly cut veneer, reasonably matched for color. Tight burls and pin knots (characteristic of redwood) and shims shall be admitted. Knots other than pin knots, worm holes, sapwood, mineral streaks and patches (except shims) not permitted.

GRADE "2"—Not matched for color or grain. Natural discoloration, stains, mineral streaks, sapwood, and patches shall be admitted. Sound tight knots to $\frac{3}{4}$ inches, sound tight burls to $1\frac{1}{2}$ inches, and knotholes to $\frac{3}{8}$ inch shall also be admitted. Patched or filled worm holes and minor sand-through on ends or edges shall not be considered defects.

GRADE "3"—Reject, and may contain any amount of brashwood, shake, compression failures, dote and loose or rough cutting. Open knotholes shall be limited to $1\frac{1}{2}$ inch diameter. Splits or open joints and sand-through shall be admitted.

Malarkey REDWOOD Plywoods . . . for beauty and durability



Rich background paneling for store windows and settings



Exterior siding

MALARKEY



M and M WOOD WORKING COMPANY 2301 N. COLUMBIA BLVD., PORTLAND 17, OREGON

Home Office:

For information on Malarkey Plyweave and Shadowood plywoods, see other Sweet's Files, numbered $\frac{4b}{Ma}$ and $\frac{1d}{Ma}$. Or write to the M and M representative nearest you:

New York 17, New York
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1791 Howard Street
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Memphis, Tennessee
627 Sterick Building

Denver 6, Colorado
Post Office Box 7024

San Mateo, California
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PLA 23-1

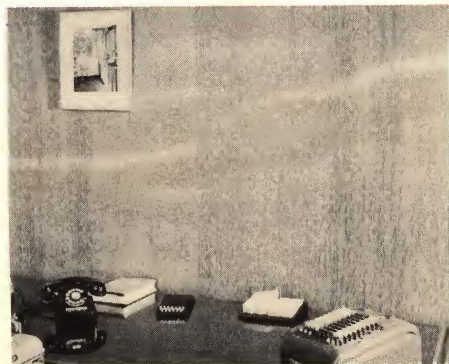
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MALARKEY

PLYWEAVE

REDWOOD AND FIR PLYWOOD
WITH EMBOSSED WOVEN TEXTURE



*for walls, ceilings,
siding, cabinets, displays*

M and M WOOD WORKING COMPANY
PORTLAND 17, OREGON

A.I.A. 23-1

PLYWEAVE MALARKEY'S EXCLUSIVE

PLYWOOD WITH THE EMBOSSED WOVEN TEXTURE

Use Malarkey Plyweave indoors and out—with either redwood or fir faces.

- All Redwood Plyweave is bonded with completely waterproof phenolic resin glue.
- Fir Plyweave is available with *either* waterproof exterior (at slight extra cost) or moisture resistant glue bonds.
- For greatest endurance, all exterior paneling should be edge-sealed and back-primed prior to installation.



MALARKEY FIR PLYWEAVE

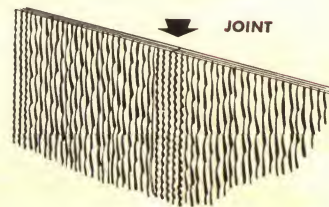


MALARKEY REDWOOD PLYWEAVE

Plyweave features...

UNUSUAL DRAMATIC APPEARANCE. Plyweave is a specialty member of the famous Malarkey plywood family. Its unusual woven texture is embossed under heat and pressure right into the plywood surface. This permanent pattern cannot fade, rub off, or otherwise become obscured—and may be finished in many intriguing fashions. Plyweave panels are extra tough, too. Wood fibres are tightly compressed by the embossing process, to harden and seal the panel surfaces.

PLYWEAVE SPEEDS BUILDING AND REMODELING. Large 4x8 foot panels are quickly applied. A slightly more distinct beading reoccurs every eight inches across each panel, to serve as an accurate stud-nailing guide. And simple butt joints are hidden in this beaded pattern. When driven with a normal deep set, finishing nails require no filling. Nails virtually disappear in the beaded Plyweave pattern.



Like all other famous Malarkey plywood products, Plyweave provides the remarkable strength of cross-ply lamination . . . the building speed of large panels . . . and the unmatched beauty of genuine wood.

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SCIENTIFIC TESTS PROVE . . .

1. *Flexural strength* of fir Plyweave falls within the average range of values for ordinary fir plywood (at 5% moisture content).
2. *Impact strength* also lies within the general range of values for 1/4-inch fir plywood (the dimension tested).
3. *Weathering* tests, which created accelerated weathering equivalent to seven months' outdoor exposure, indicated the following characteristics:



A. Neither sunlight nor moisture adversely affect the Plyweave pattern. For in this process the Plyweave pattern is permanently embossed into the wood. This unusual wood texture can't fade or wash away.

B. Plyweave panels with natural tones (unfinished and varnished) very effectively mask any surface checking, because of the textured surface and varying light and dark tone.

C. Surface checking is more visible on painted Plyweave surfaces, but the embossed design tends to reduce its prominence.

PRODUCT CHARACTERISTICS

FACES: *Redwood:* Pattern applied to selected rift grain redwood panels with patch-free faces. Inconspicuous shims permitted. *Fir:* Selected figured grain Douglas fir veneers. May contain inconspicuous patches and narrow shims.

BACKS: Grade C veneers.

CORE: Selected solid fir or redwood core.

PLYWEAVE SPECIFICATIONS

Interior Use

"Malarkey Redwood Plyweave," or "Malarkey Fir Plyweave"

Exterior Use

"Malarkey Redwood Plyweave," or "Malarkey Fir Plyweave EXTERIOR"

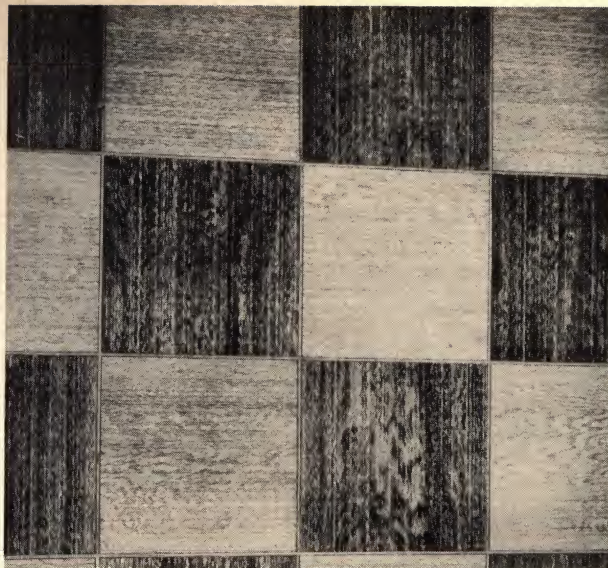


Scuff-resistant Plyweave is ideal for schools, public buildings

FIR PLYWEAVE						REDWOOD PLYWEAVE				
Face	Selected: figured grain fir veneers.					Selected: patch-free rift grain redwood veneers.				
Back	C					C				
Width	48 inches					48 inches				
Length	96 inches					96 inches				
Thicknesses	1/4"	3/8"	1/2"	5/8"	3/4"	1/4"	3/8"	1/2"	5/8"	3/4"
Plies	3	3	5	5	5	3	3	5	5	7
Wt. per M ft. (approximate)	790 lbs.	1125 lbs.	1525 lbs.	1825 lbs.	2225 lbs.	600 lbs.	850 lbs.	1175 lbs.	1425 lbs.	1900 lbs.
Inner ply specie	Fir					Redwood or fir at factory option ²				
Glue bond	Moisture resistant (for interior use) or phenolic resin ¹ (waterproof exterior)					Phenolic resin (waterproof exterior)				

¹ At slight extra cost

² 100% redwood heartwood panels available at slight extra cost.



These matched Plyweave squares demonstrate just one of the many unusual techniques possible. Alternately grained, alternately stained fir blocks create an attractive checkerboard design which can be proportioned to fit any room.

Plyweave finds wide use for commercial interiors. This hotel coffee shop entrance is framed with fir Plyweave to offer an interesting, inviting contrast with the walnut wall paneling.



A MALARKEY PLYWEAVE FINISH is really just the beginning for tasteful decoration

Two colors. The base color is brushed or sprayed over resin sealer or primer coat. Then a contrasting hue or harmonizing tone is applied with a paint roller or brushed on, to be wiped off high surface points with a coarse cloth. No preliminary sanding is required because of Plyweave's hard, smooth finish. Countless pleasing effects are possible with this technique.

Single color. The light-and-shadow texture of Plyweave gives richness and depth to any single color, too.

Natural finishes. The native tones of genuine redwood and fir may be preserved simply by applying one or two coats of a quality wallpaper lacquer.

Stain finishes. Regular liquid stains may be used, although the subdued natural wood grain in Plyweave tends to reduce their value. A more satisfactory agent is the wax stain, the tone intensity of which may be accurately controlled by the amount of wax retained in the Plyweave surface depressions. Clear liquid wax over any type of stained or bleached Plyweave will add to its beauty and durability.



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For information on Malarkey Redwood and Shadowood plywoods see other SWEET'S FILES numbered $\frac{4b}{Ma}$ and $\frac{1d}{Ma}$. Or write our representative nearest you:



Malarkey

SHADOWOOD

REDWOOD AND FIR PLYWOOD

WITH A HARD, DECORATIVE, THIRD-DIMENSION SURFACE



*for walls, ceilings, siding,
cabinets, fixtures, displays*

M and M WOOD WORKING COMPANY
PORTLAND 17, OREGON

SHADOWOOD

A MALARKEY
DELUXE PLYWOOD

● Shadowood has a three-dimensional, accentuated grain pattern. Soft summer growth is brushed from panel faces, leaving the swirling hard winter growth in bas relief. ● Malarkey *Redwood* Shadowood is bonded inseparably with waterproof phenolic resin glue. This permanent bond can be used inside or out, under any moisture conditions. ● *Fir* Shadowood, normally bonded with *moisture-resistant* glue, is also available with phenolic resin bonding for exterior use, at slight extra cost. Specify "Malarkey Fir Shadowood, EXTERIOR."

Malarkey SHADOWOOD is available in either Redwood or Douglas Fir... bonded for both interior and exterior applications.



MALARKEY FIR SHADOWOOD



MALARKEY REDWOOD SHADOWOOD (Natural)



MALARKEY REDWOOD SHADOWOOD (Planked)

Shadowood features...

DECORATIVE APPEARANCE. **Redwood Shadowood** has a russet color found nowhere else in nature; unique chemical composition gives it its soft, warm tones. The free-flowing grain in both redwood and fir Shadowood provides a pleasing background for modern or traditional living. **Fir Shadowood** reflects a rose-tinted honey tone that may be beautifully preserved with a clear finish, or can be stained or painted with ease.

TWO SHADOWOOD PATTERNS AVAILABLE. *Natural:* Natural Shadowood panels present a full, unbroken surface of the Shadowood pattern. Both Redwood and Fir are available in *natural*.

Planked: A planked Shadowood effect is achieved by vee-grooves every 5, 11, 7, 9, 10, and 6 inches. The edges of the *planked* panels are beveled so that another vee-groove is formed when panels are butt joined. It's no trick at all to quickly apply a distinctive *planked* Shadowood wall. The planked pattern is available only in *redwood* Shadowood.

STRENGTH. The plywood construction gives extra rigidity to Shadowood panels. With each ply at right angles to the adjacent plies, its strength is approximately uniform both lengthwise and crosswise. Pound for pound, plywood is stronger than steel.

LIGHTWEIGHT. Plywood allows great savings in weight in home or commercial construction. And Malarkey *Redwood* Shadowood is 20% *lighter* than fir plywood.

DURABILITY. Malarkey *Redwood* Shadowood is highly resistant to deterioration from weathering, and from insects and decay. Its plastic waterproof bond is not affected by extremes of temperature or continual moisture.

LOW SHRINKAGE. Redwood has the least volumetric shrinkage of any commercial American wood.

Specifications

Interior Use

"Malarkey Redwood Shadowood," or "Malarkey Fir Shadowood"

Exterior Use

"Malarkey Redwood Shadowood," or "Malarkey Fir Shadowood EXTERIOR"



- Notes:**
- Shadowood faces are specially selected for pleasing grain patterns and absence of flaws. Only small, inconspicuous shim patches are permitted in these quality faces.
 - Other thicknesses and sizes on special quotation.
 - Waterproof phenolic resin bond available at slight extra cost.
 - 100% redwood *heartwood* panels available at slight extra cost.

	Malarkey REDWOOD Shadowood	Malarkey DOUGLAS FIR Shadowood
Grade	Special	Special
Face	Special ¹	Special ¹
Back	D	D
Glue	Phenolic Resin (waterproof)	Moisture resistant ³
Inner Ply Species	Redwood or Fir at mill option ⁴	Douglas Fir
Face Pattern	Natural or Planked	Natural only
Width ²	48 inches	48 inches
Length ²	96 inches	96 inches
Thickness ²	$\frac{5}{16}$ inches	$\frac{5}{16}$ inches
Number of Plies	3	3
Weight Per M Ft. (approximate)	600 pounds	790 pounds



HOMES

New Interior Walls. One method of installing Shadowood panels on walls is to first nail an underlay of $\frac{5}{16}$ " Malarkey fir or redwood sheathing crosswise to the studs, followed by a finish layer of Malarkey Shadowood.

A row of 2 x 4 fire blocking should be placed at a 4' height between the studs for fire protection.

Board and Batten Siding. This vertical siding is easily erected with 4 x 8 foot Shadowood panels, over which are nailed batten strips at any desired interval. Malarkey *redwood* Shadowood is equally well suited for this type of outdoor use, as it is for all interior applications. When using fir Shadowood for exterior installations, be sure to specify "Malarkey Fir Shadowood, EXTERIOR"—with the completely waterproof glue bond. And for most satisfactory, long-lasting results, all siding panels must first be thoroughly edge-sealed and back-primed before installation.

Ceilings. For ceilings it is suggested that 1" x 3" furring strips be applied to every other joist beginning at the center of the room and working both ways. Furring strips should also run crossways to the joists every 24 inches. In fastening panels start at center of room. In this manner a uniform panel effect will be achieved throughout the entire ceiling area. Use $\frac{5}{16}$ " Shadowood plywood nailed to this furring.

Boxed-in Beams. Shadowood plywood can be used to give ordinary beams the textured Shadowood pattern. Just miter Shadowood corners, and nail to the beams.

COMMERCIAL

Outside Uses. An attractive design can be achieved entirely with Shadowood. Durable, waterproof bonding makes Malarkey Shadowood panels ideal for outside use and opens up a whole new field of architectural design. Construction time is cut sharply and finishing is easy and fast.

Use $\frac{5}{16}$ " Malarkey Redwood Shadowood or Fir Shadowood (waterproof grade) over sheathing for outside construction or where moisture is prevalent. Edge seal and back prime the panels before installing to insure long life and to reduce maintenance costs.

Fixtures. For modern fixtures or for rustic showcases, Malarkey Shadowood is excellent. It has an exceptionally hard surface, is easy to finish and to keep looking new.

Displays. This unusual wood makes an excellent complimentary background for models and furnishings. Adds a touch of texture and a feeling of quality to displays. Very easy to work and finish.



FINISHING EASY TO DO

INSIDE: Striking finishing effects can be achieved with the new Malarkey Shadowood. Here are some suggested methods of creating beautiful walls or furniture with Shadowood.

Clear Natural Finishes. Use either clear wax, lacquer, varnish or resin sealer.

Solid Color Finishes. Use spray or brushing lacquers or oil base paints.

Two-tone Finishes. Spray or brush your base color, let dry. Apply wax stain of accent color. Then rub off, leaving desired amount of color on the softwood.

OUTSIDE: Accelerated weathering tests made with Malarkey Shadowood panels have proved these three finishes long-lasting and resistant to all weather conditions:

1. Two coats of Olympic Seafoam Stain, wiped after brushing, or
2. Two coats of Cabot's Sequoia Red, or
3. One coat of Behr Rawhide Stain and Sealer, followed with two coats of Behr clear redwood finish.

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